NOVEMBER/DECEMBER 2023

FBT21/CBT21/BBT21 – BIOCHEMISTRY

Time : Three hours | Maximum : 75 marks

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SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Differentiate between starch and glycogen.
2. Name the Debranching enzyme.
3. What are essential amino acids?
4. Give the structure of aromatic amino acids.
5. Distinguish between essential and non essential fatty acids.
6. Define lipids.
7. Define active site.
8. Give an example for Lyases.
9. What are fat soluble vitamins?
10. List any two functions of insulin.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Classify carbohydrate with examples.

Or

(b) Justify TCA cycle is amphibolic in an hue.

12. (a) Classify amino acids based on polarity.

Or

(b) Demonstrate any two intermediates of tyrosine.

13. (a) How lipids are digested and absorbed?

Or

(b) Classify the lipids based on biological function.

14. (a) Discuss the Watson and Crick model of DNA structure.

Or

(b) Outline the nomenclature of enzymes.

15. (a) Demonstrate the deficiency disorders of vitamin D.

Or

(b) Discuss any five functions of Thyroxine.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

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16. Elaborate the steps involve in gluconeogenesis.

17. Illustrate the steps involved in urea cycle.

18. Evaluate the steps involved in the beta oxidation of fatty acids.

19. Discuss the mechanism of enzyme action with example.

20. Summarize on the principle and methodology of SDs PAGE.

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